



The Technical Cooperative Program Joint Systems & Analysis Group (JSA), Technical Panel 5 on Dismounted Combatant Operations (TTCP-TP5)

General Description:

TP5 works collaboratively to improve the analytical tool set and knowledge base supporting dismounted combatant analyses. It leverages and complements the US Warrior Systems Modeling Technology STO (Science and Technology Objective) Program.

Objectives:

Four major focus areas are being pursued:

- equipment-based technology and concepts to fit the 2020 timeframe;
- models, wargames, and simulations of dismounted combatant operations;
- data collection and collection techniques;
- innovative integrated protective concepts against novel weapons.

Deliverables have included workshops, collaborative studies, cross-nation peer reviews, informal information exchanges and, where appropriate, formal Project Arrangements, participation in and observation of tests, demonstrations, and field trials.

Work previously started in the TTCP JSA, Action Group 7 is being continued, including an analysis of technology requirements in various missions, updating a national trials log, and defining human performance data collection requirements.

Facts:

- The Terms of Reference (TOR) for this new Technical Panel were formulated during early 2000, and JSA officially approved the proposed TOR in June 2001.
- An updated three-year program of work in each area has been developed and approved. Primary thrusts include obtaining agreement with other Technical Panels (TPs) and Action Groups (AGs) in focusing future warrior system technology development further development of the shared DART tool, as well as V&V of the Infantry Warrior Simulation (IWARS) and the Close Action Environment (CAEn) wargame.
- Two Project Agreements are being pursued. The first, still in a discussion phase, involves collaborative work in volumetric or thermobaric munitions and will significantly benefit the US Army ballistic protection program. The second Agreement, signed in late June 2004, will provide IWARS executable code to Australia in exchange for their considerable expertise in Software Intelligent Agents. Appropriate algorithms will be incorporated into the IWARS.
- A workshop on Agent-Based Software was conducted in April 2002. A joint workshop between TP5 and JSA AG12 (Title: Methods and Approaches for War-Fighting Experimentation) on the conduct of Dismounted Combatant trials was held in Toronto from 3-5 September 2003. A joint workshop (with TTCP Human Factors groups) was conducted in October 2003 to review human performance modeling issues.
- TP5 worked with the UK to convert the CAEn Wargame from PASCAL/Digital Equipment Corp. platforms to the Windows operating system and PC platforms. Source code has been distributed to the TP5 nations, with the latest version of CAEn distributed to members on 6 May 2004.

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